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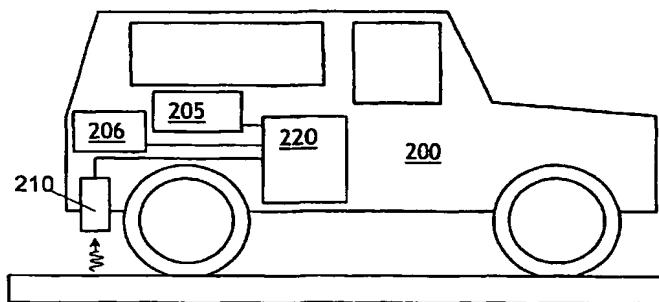
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(54) Title: METHOD AND SYSTEM FOR DETECTING A PROPERTY OF A PAVEMENT BY MEASURING GAMMA-RADIATION



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(57) Abstract: For detecting a property of at least one layer (301) of a pavement (300), a flux of radiation of energy levels or at least one range selected from an energy spectrum received from the pavement is measured in a position above the pavement. The measured radiation includes g-radiation emitted by at least one radionuclide in or under the pavement. Information regarding the property is determined from the measured flux and a relationship between at least one flux of g-radiation of the energy levels or the range or ranges selected from the energy spectrum and the property. Pavement layers typically contain different concentrations of g-radiation emitting radio nuclides than the roadbed or the soil underneath and this also applies to layers of pavement of different material compositions. Selectively processing measured radiation at different energy levels or in at least one selected energy range allows to determine information regarding properties of the pavement from measured g-radiation intensity more accurately.